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Date:	March 15, 2006
To:	Examiner Anh Ly **GROUP ART UNIT: 2172**
Organization:	United States Patent and Trademark Office
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From:	Kelvin M. Vivian
Re:	USSN 09/757,427 Our Ref.: 1852P

Attached is a copy of the claims including proposed amendments. The limitations of claims 4-5 have been incorporated into claim 1, the limitations of claims 9-10 have been incorporated into claim 6, and the limitations of claims 14-15 have been incorporated into claim 11. In addition, in the independent claims, "the return" in the independent claims have been amended to recite "a result", and a definition has been provided for a stabilized data page as found, for example, in the specification at page 1, line 23 – page 2, line 3. Feel free to give me a call at (650) 475-1448 should you have any questions. - Kelvin

If you have any questions or need further information, please contact us.

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Proposed Amendment 09/757,427 (1852P)

1. (Currently Amended) A method for processing a database query on a set of data stored on a plurality of data pages in a database management system, the method comprising the steps of:

a) utilizing a query processor to call a data manager and request the ~~return~~ a result of data from the set of data;

b) allowing the data manager to locate and access query-specified data on a stabilized data page and make a determination regarding the query-specified data, the data page being stabilized to prevent concurrent updates to the data page to preserve a logical integrity of contents of the data page while the data manager is accessing the data page;

c) utilizing the data manager to write all the query-specified data on the stabilized data page to a buffer based on the determination while maintaining the stabilization of the data page; and

d) utilizing the query processor to retrieve the query-specified data from the buffer.

2. (Original) The method of claim 1 wherein the determination involves determining whether the query-specified data is to be ignored, consumed, or returned to the query processor.

3. (Original) The method of claim 2 wherein the determination is that the query-specified data is to be returned to the query processor.

4. **(Cancelled)** The method of claim 3 wherein the set of data is stored on a plurality of pages and step b) further comprises:

b1) locating a page containing query-specified data;

b2) stabilizing the page; and

b3) accessing the page.

5. **(Cancelled)** The method of claim 4 wherein step c) further comprises:

c1) maintaining the stabilization of the page, while the data manager writes all the query-specified data on the page to the buffer.

6. (Currently Amended) A system for processing a database query on a set of data stored on a plurality of data pages in a database management system, the system comprising:

a data manager;

a query processor comprising means to call the data manager and request ~~the return~~ a result of data from the set of data;

means for allowing the data manager to locate and access query-specified data on a stabilized data page and make a determination regarding the query-specified data, the data page being stabilized to prevent concurrent updates to the data page to preserve a

logical integrity of contents of the data page while the data manager is accessing the data page;

means for utilizing the data manager to write all the query-specified data on the stabilized data page to a buffer based on the determination while maintaining the stabilization of the data page; and

means for utilizing the query processor to retrieve the query-specified data from the buffer.

7. (Original) The system of claim 6 wherein the determination involves determining whether the query-specified data is to be ignored, consumed, or returned to the query processor.

8. (Original) The system of claim 7 wherein the determination is that the query-specified data is to be returned to the query processor.

9. (**Cancelled**) The system of claim 8 wherein the set of data is stored on a plurality of pages and the means for allowing the data manager to locate query-specified data further comprises:

means for locating a page containing query-specified data;

means for stabilizing the page; and

means for accessing the page.

10. **(Cancelled)** The system of claim 9 wherein the means for utilizing the data manager to write the query-specified data to a buffer further comprises:

means for maintaining the stabilization of the page, while the data manager writes all the query-specified data on the page to the buffer.

11. (Currently Amended) A computer readable medium containing program instructions for processing a database query on a set of data stored on a plurality of data pages in a database management system, the program instructions comprising the steps of:

a) utilizing a query processor to call a data manager and request ~~the return~~ a result of data from the set of data;

b) allowing the data manager to locate and access query-specified data on a stabilized data page and make a determination regarding the query-specified data, the data page being stabilized to prevent concurrent updates to the data page to preserve a logical integrity of contents of the data page while the data manager is accessing the data page;

c) utilizing the data manager to write all the query-specified data on the stabilized data page to a buffer based on the determination while maintaining the stabilization of the data page; and

d) utilizing the query processor to retrieve the query-specified data from the buffer.

12. (Original) The computer readable medium of claim 11 wherein the determination involves determining whether the query-specified data is to be ignored, consumed, or returned to the query processor.

13. (Original) The computer readable medium of claim 12 wherein the determination is that the query-specified data is to be returned to the query processor.

14. **(Cancelled)** The computer readable medium of claim 13 wherein the set of data is stored on a plurality of pages and step b) further comprises:

b1) locating a page containing query-specified data;

b2) stabilizing the page; and

b3) accessing the page.

15. **(Cancelled)** The computer readable medium of claim 14 wherein step c) further comprises:

c1) maintaining the stabilization of the page, while the data manager writes all the query-specified data on the page to the buffer.

16. (Currently Amended) A method for processing a database query on a set of data stored on a plurality of data pages in a database management system, the method comprising the steps of:

a) utilizing a query processor to call a data manager and request ~~the return~~ a result of data from the set of data;

b) allowing the data manager to locate query-specified data by:

b1) locating a data page containing query-specified data;

b2) stabilizing the data page; and

b3) accessing the data page, wherein the data page is stabilized to prevent concurrent updates to the data page to preserve a logical integrity of contents of the data page while the data manager is accessing the data page;

c) utilizing the data manager to make a determination regarding the query-specified data and to write the query-specified data on the stabilized data page to a buffer based on the determination while maintaining the stabilization of the data page; and

d) utilizing the query processor to retrieve the query-specified data from the buffer.

17. (Currently Amended) A system for processing a database query on a set of data stored on a plurality of data pages in a database management system, the system comprising:

a data manager;

a query processor comprising means to call the data manager and request ~~the return~~ a result of data from the set of data;

means for allowing the data manager to locate query-specified data comprising,

means for locating a data page containing query-specified data,

means for stabilizing the data page, and

means for accessing the data page, wherein the data page is stabilized to prevent concurrent updates to the data page to preserve a logical integrity of contents of the data page while the data page is being accessed;

means for utilizing the data manager to make a determination regarding the query-specified data and to write the query-specified data on the stabilized data page to a buffer based on the determination while maintaining the stabilization of the data page; and

means for utilizing the query processor to retrieve the query-specified data from the buffer.

18. (Currently Amended) A computer readable medium containing program instructions for processing a database query on a set of data stored on a plurality of data pages in a database management system, the program instructions comprising the steps of:

a) utilizing a query processor to call a data manager and request ~~the return~~ a result of data from the set of data;

b) allowing the data manager to locate query-specified data by:

b1) locating a data page containing query-specified data;

b2) stabilizing the data page; and

b3) accessing the data page, wherein the data page is stabilized to prevent concurrent updates to the data page to preserve a logical integrity of contents of the data page while the data manager is accessing the data page;

c) utilizing the data manager to make a determination regarding the query-specified data and to write the query-specified data on the stabilized data page to a buffer based on the determination while maintaining the stabilization of the data page: and

d) utilizing the query processor to retrieve the query-specified data from the buffer.